

The Jini Technology

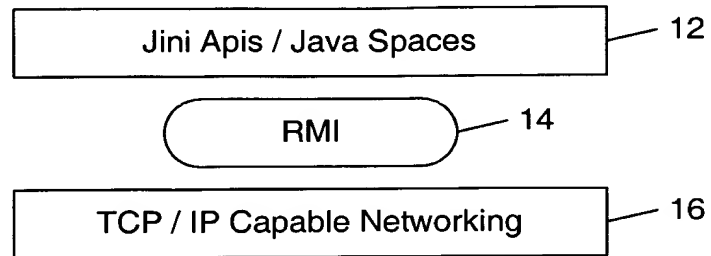


Fig. 1
(Prior Art)

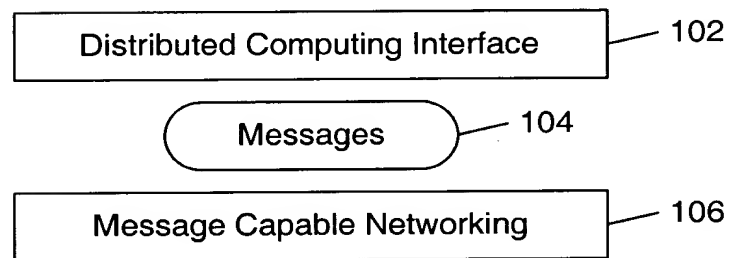


Fig. 2

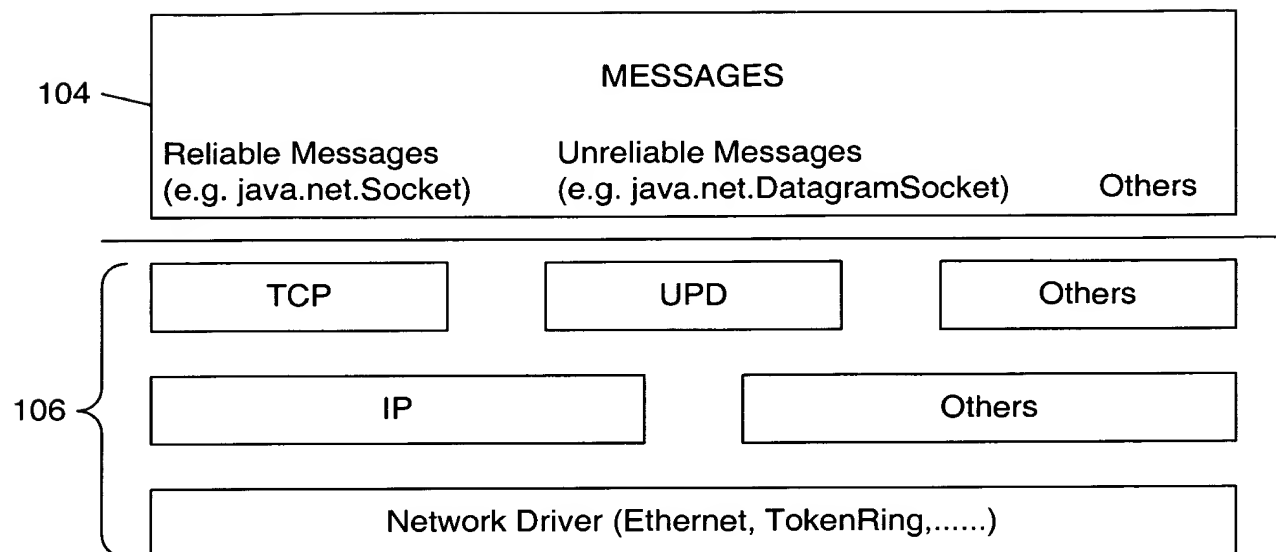


Fig. 3

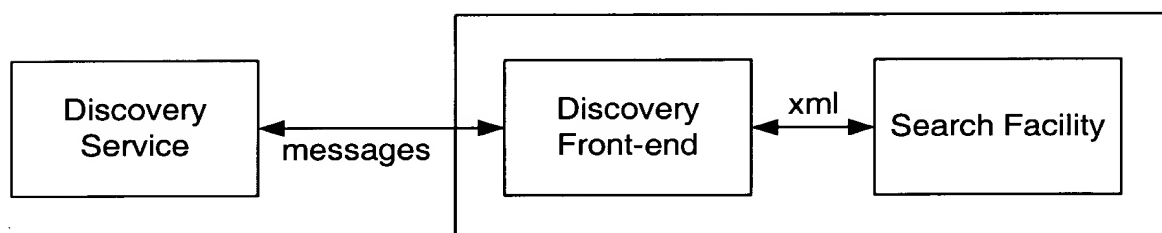


Fig. 4

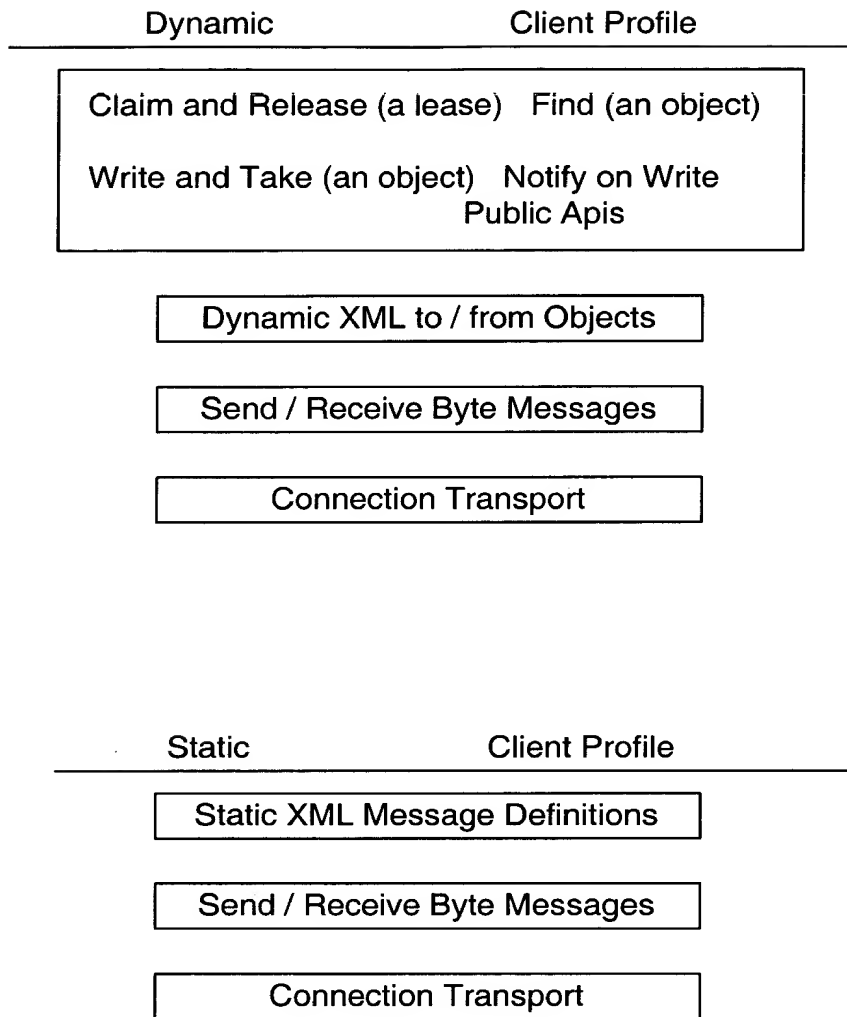


Fig. 5

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graph TD
    110([Any Client]) <--> |XML Messages| 114([Space])
    114 <--> |XML Messages| 112([Device / Service])
    110 <--> |XML Messages| 112
  
```

The diagram illustrates a Space-based architecture. It consists of three main components: 'Any Client' (labeled 110), 'Space' (labeled 114), and 'Device / Service' (labeled 112). These components are arranged in a triangle and are interconnected by bidirectional arrows, each labeled 'XML Messages'. This indicates that any client can communicate directly with any device/service, and both can also communicate through the central space component.

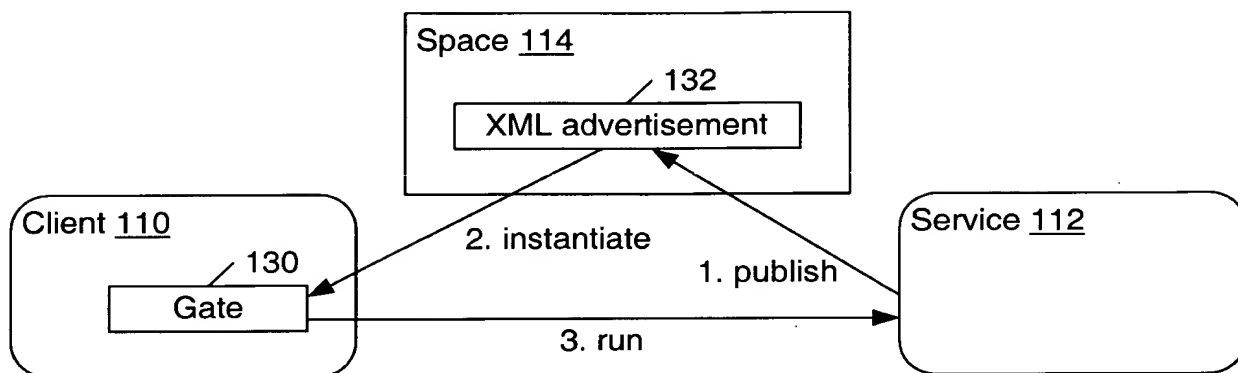


Fig. 8

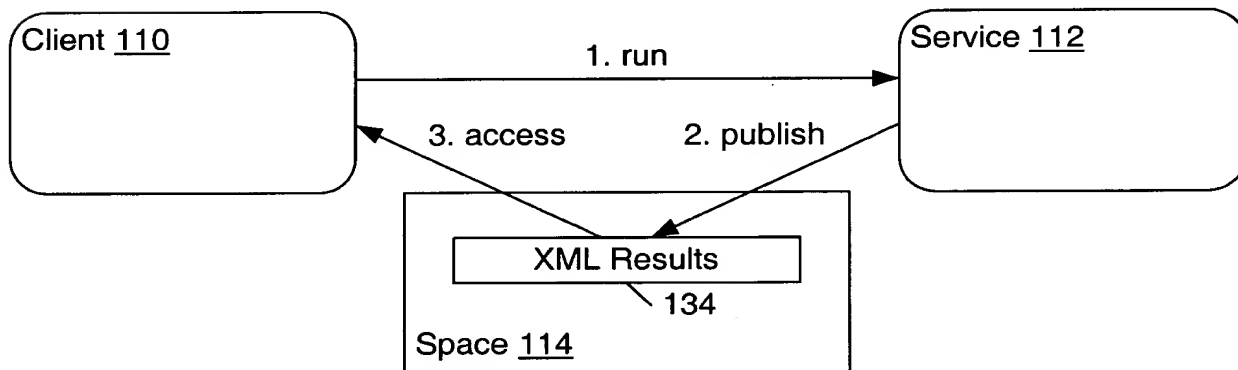


Fig. 9

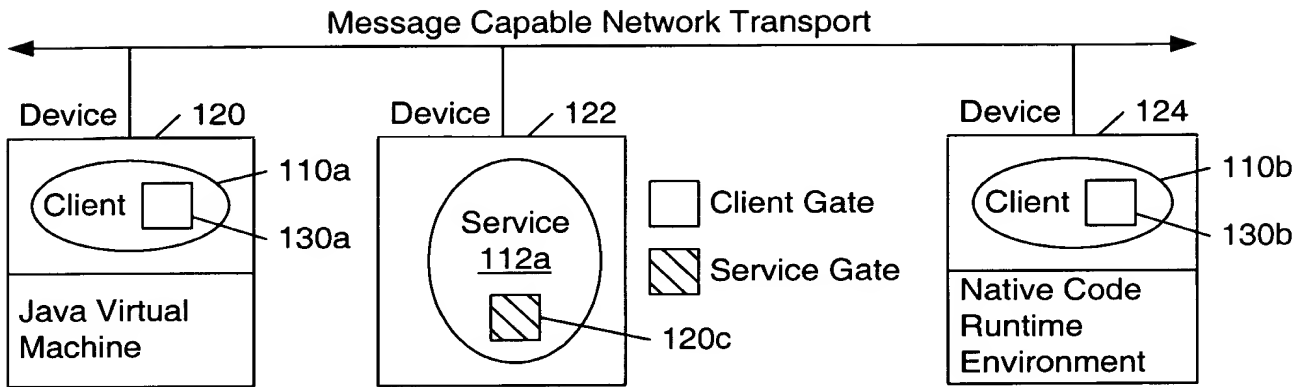


Fig. 10a

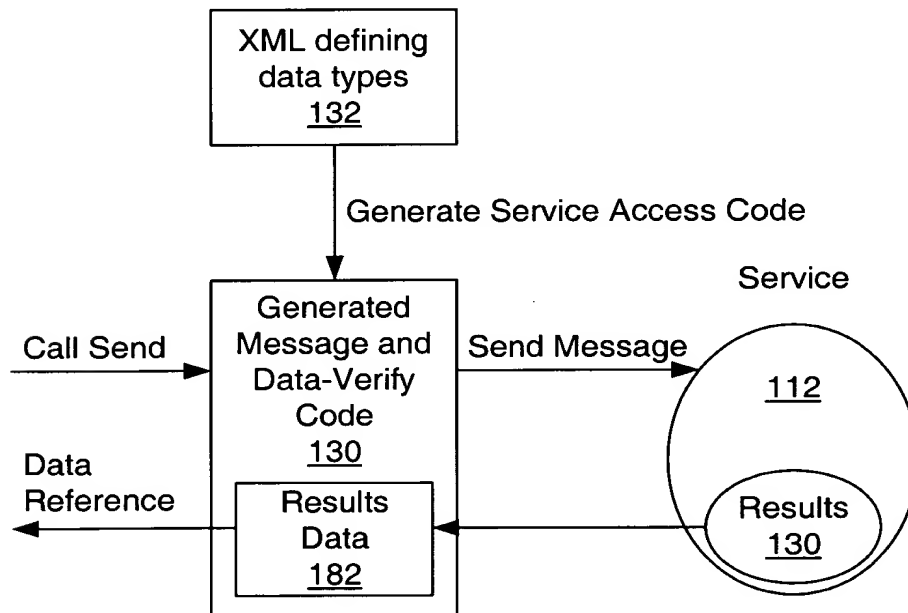


Fig. 10b

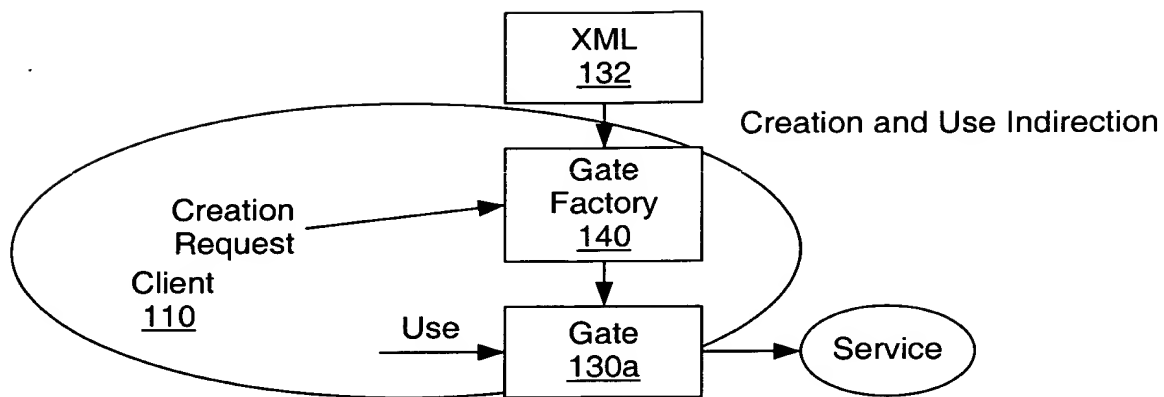


Fig. 11a

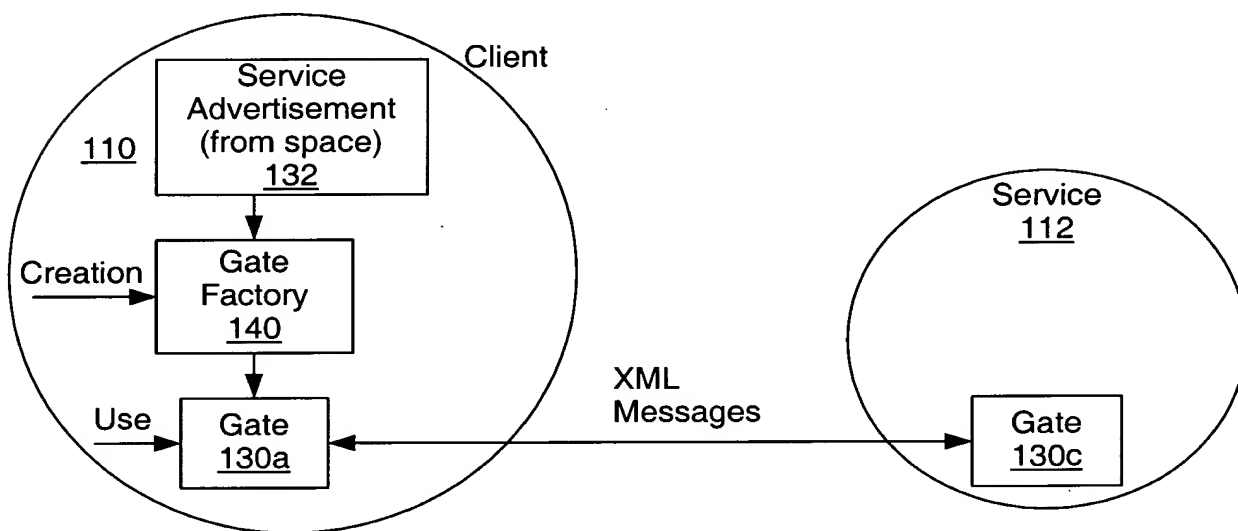


Fig. 11b

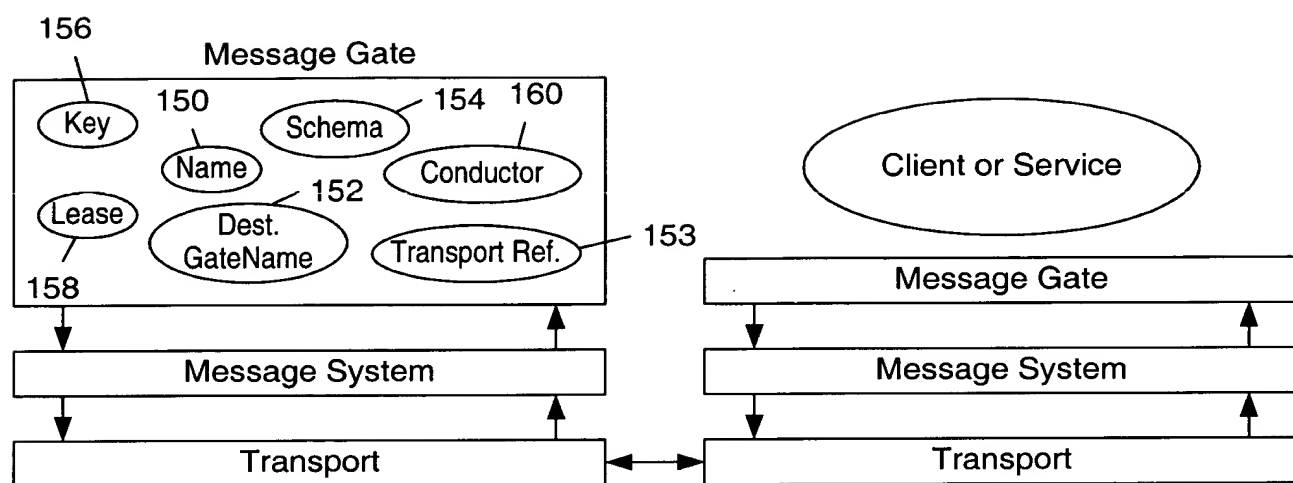


Fig. 12

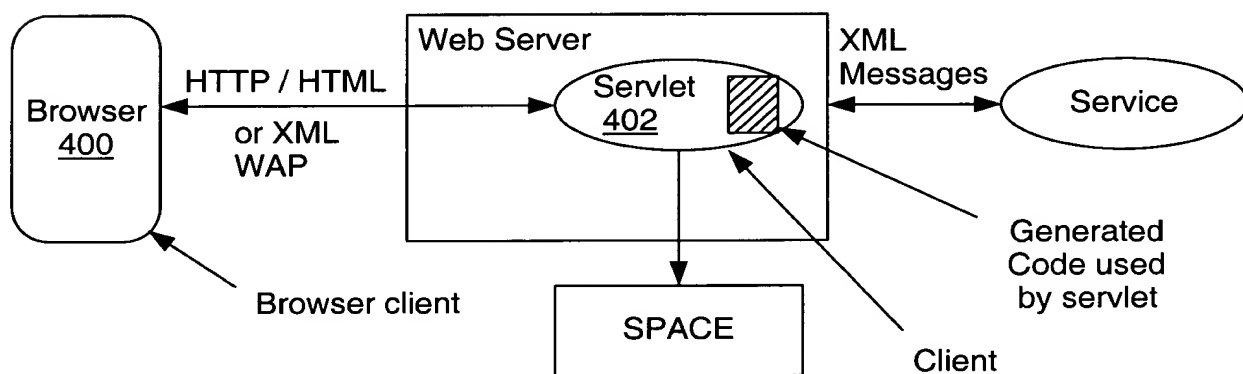


Fig. 13

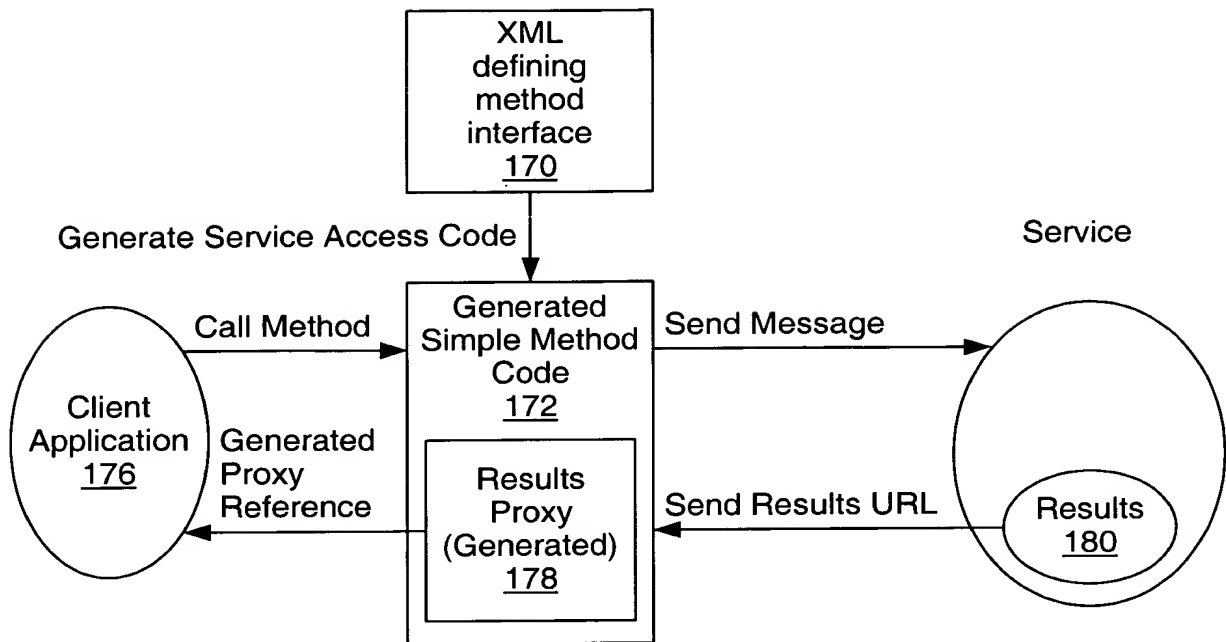


Fig. 14

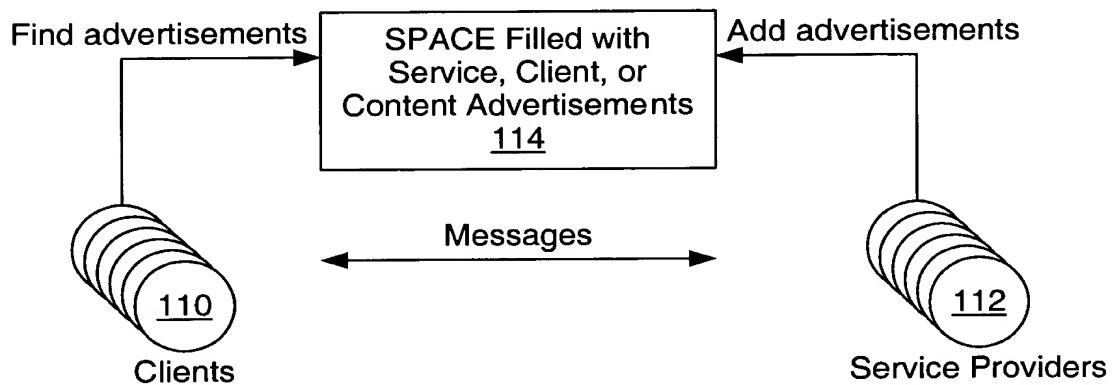


Fig. 15

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graph LR; In(( )) -- 1 --> Drafted((Drafted)); Drafted -- 2 --> Published((Published)); Drafted -- 3 --> Persistent((Persistent)); Persistent -- 4 --> Drafted; Published -- 5 --> Drafted;
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Fig. 17

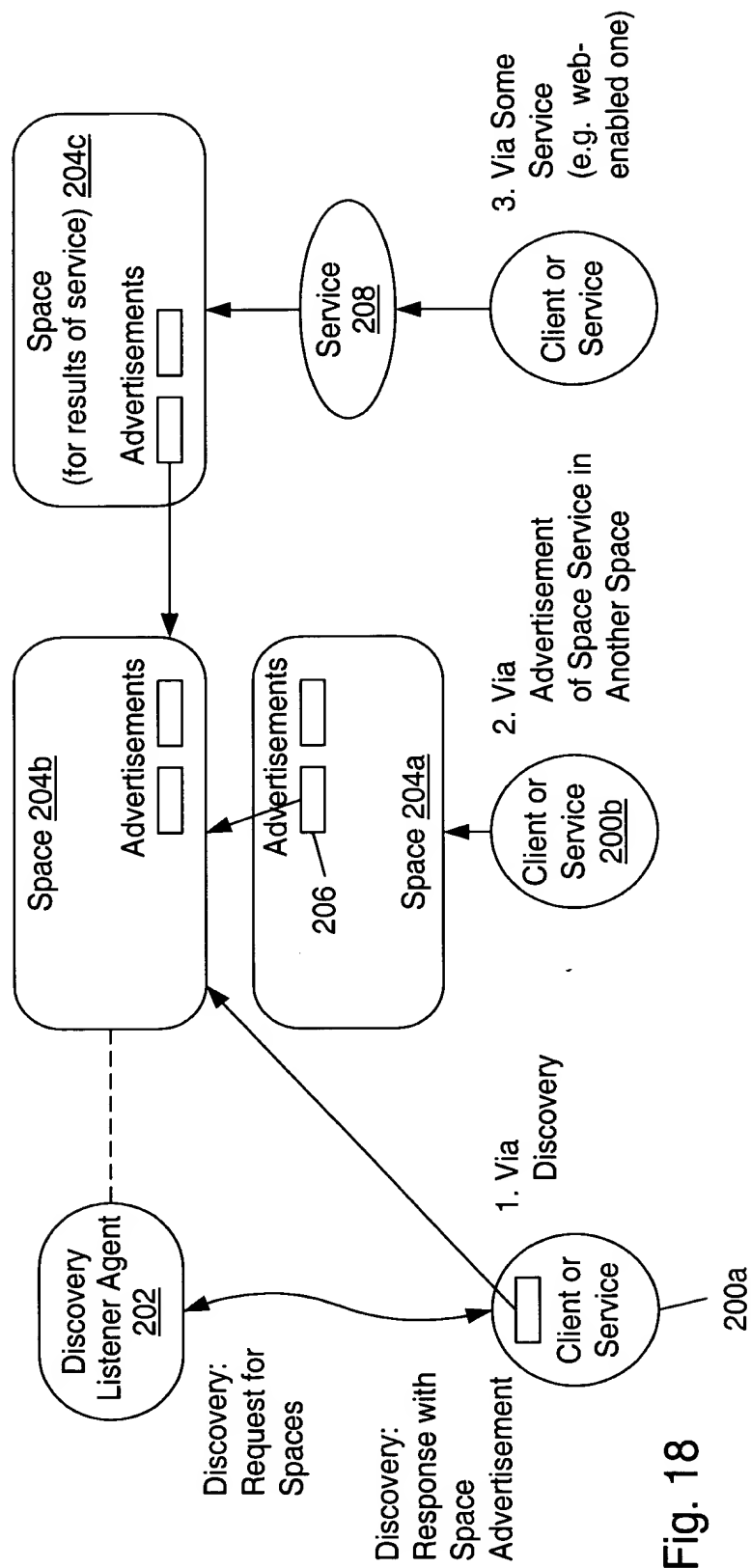


Fig. 18

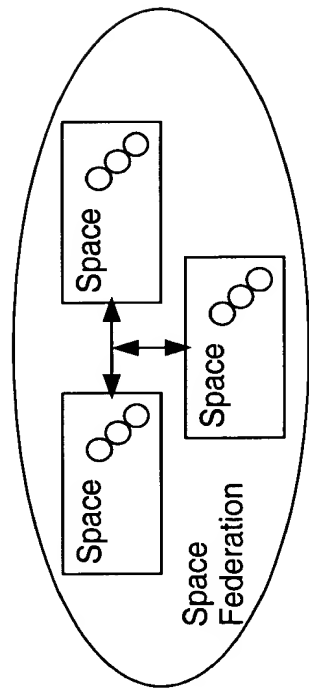


Fig. 19

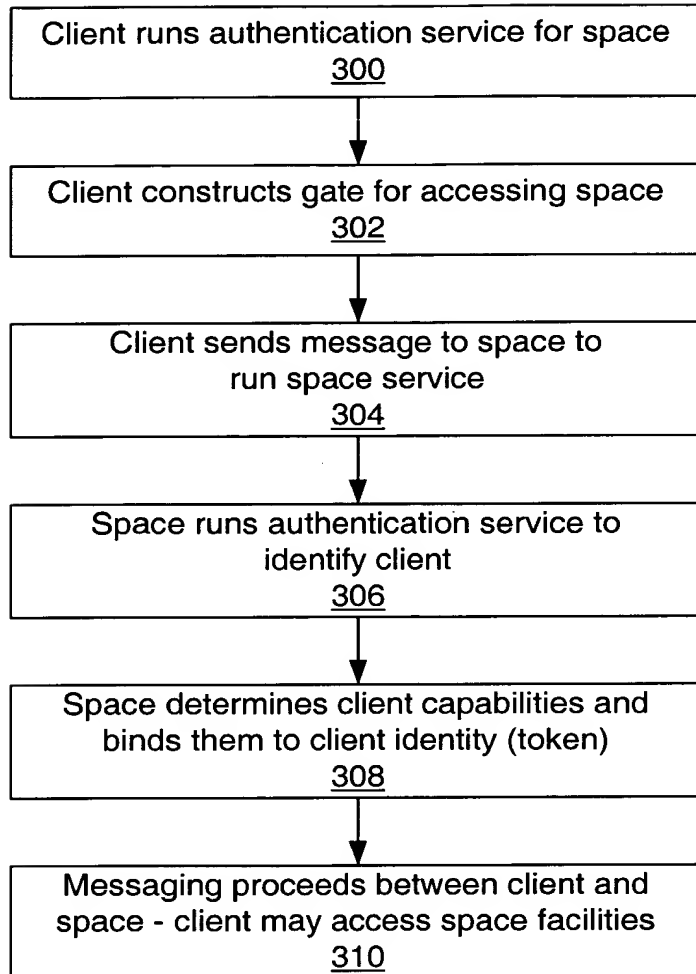


Fig. 20

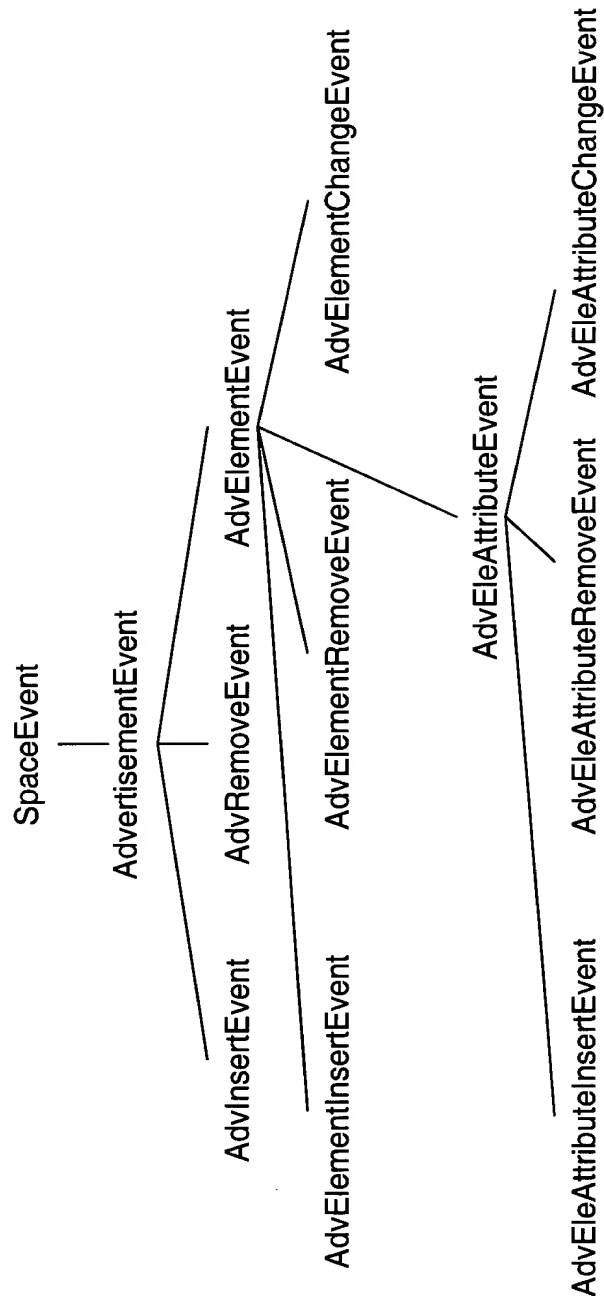


Fig. 21

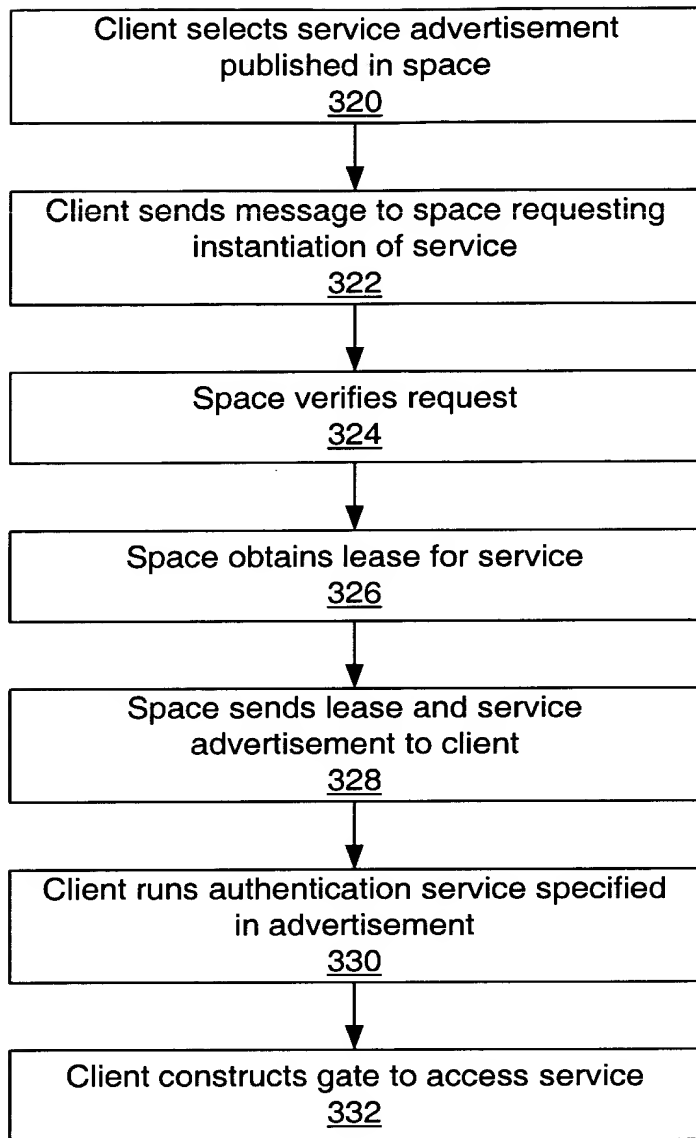


Fig. 22

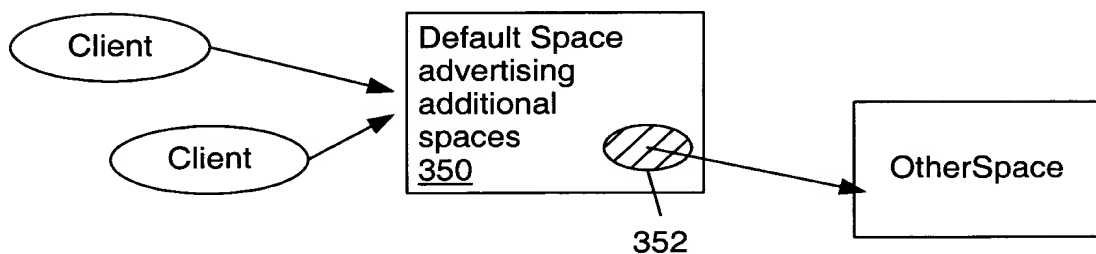


Fig. 23

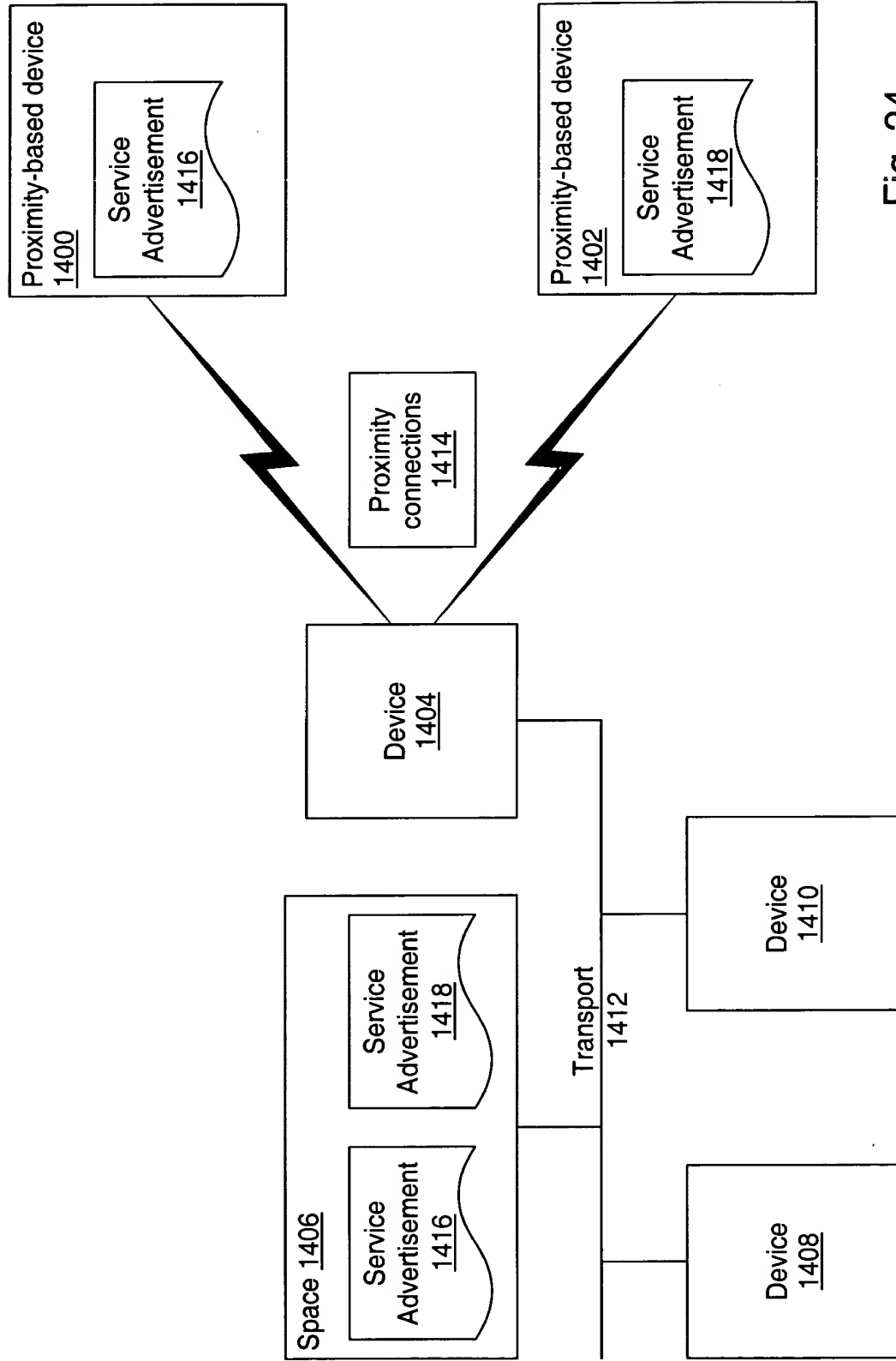


Fig. 24

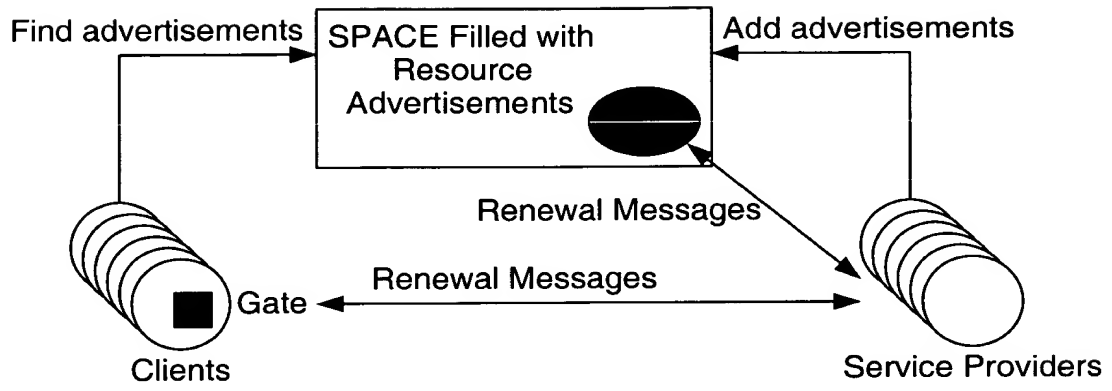


Fig. 25

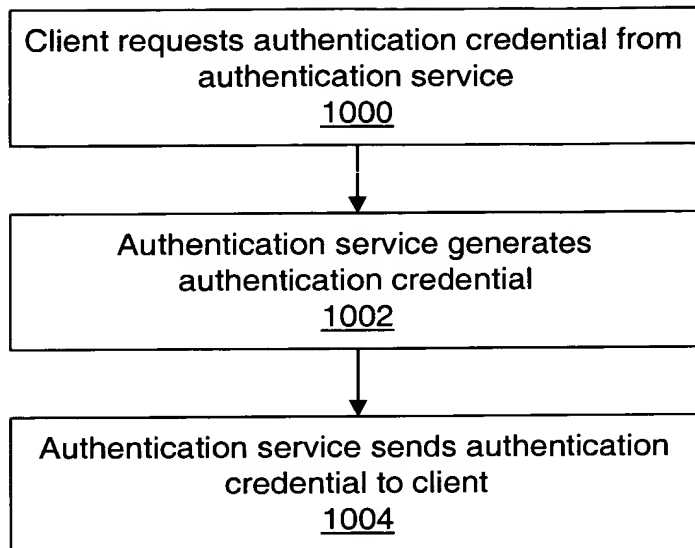


FIG. 26a

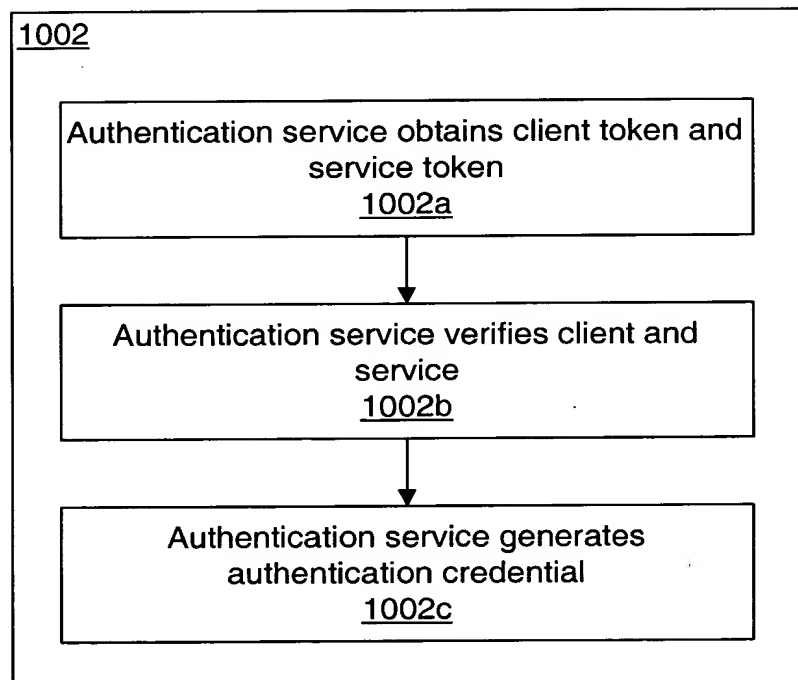


FIG. 26b

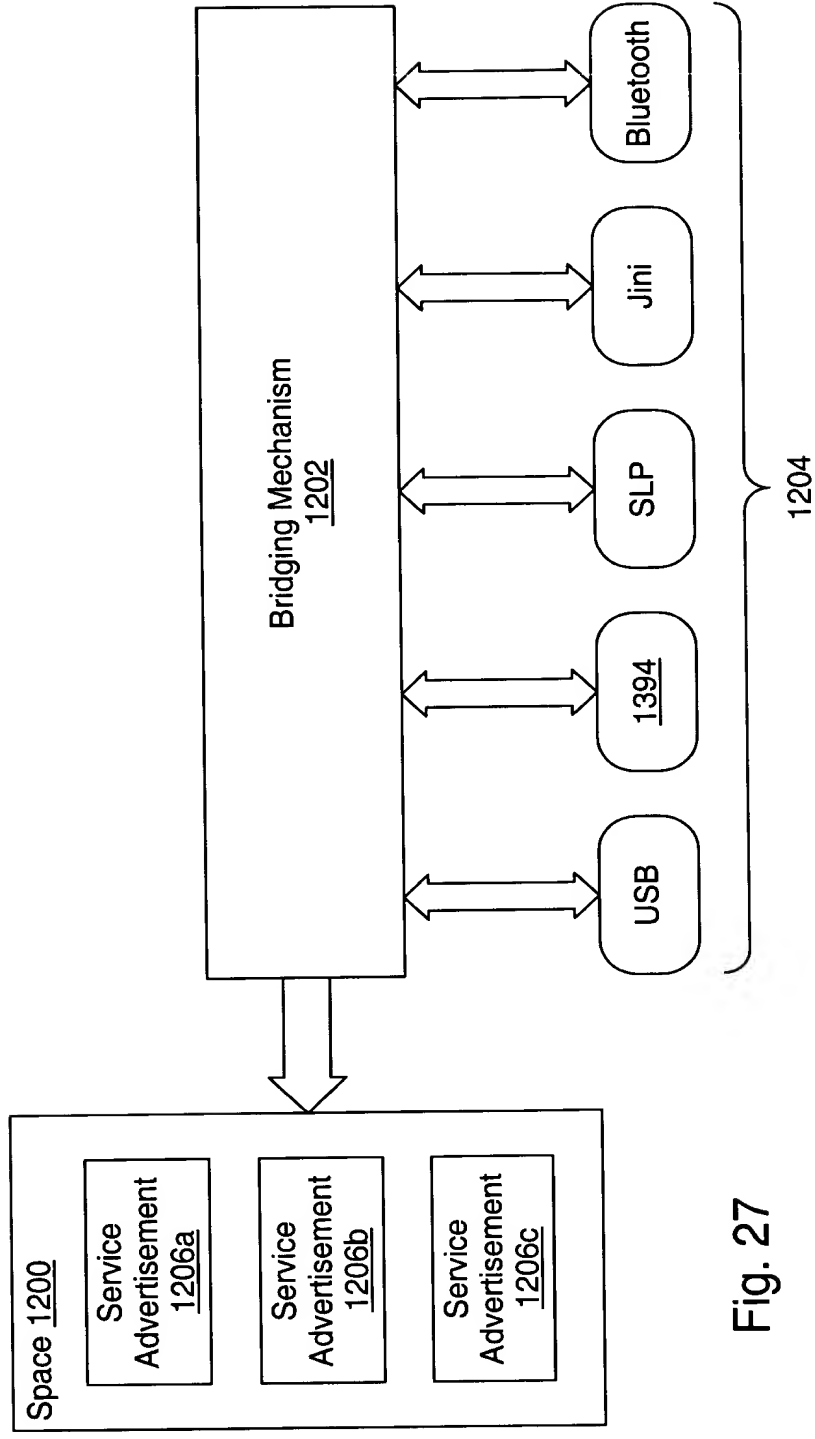


Fig. 27

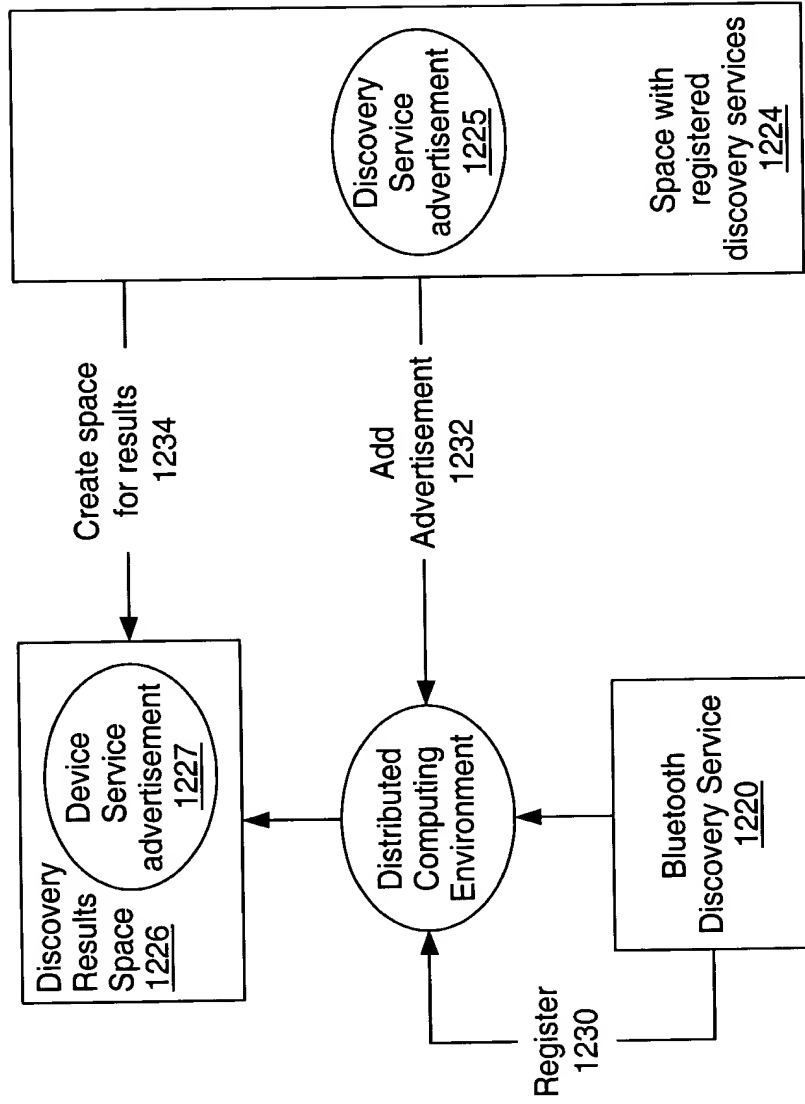


Fig. 28

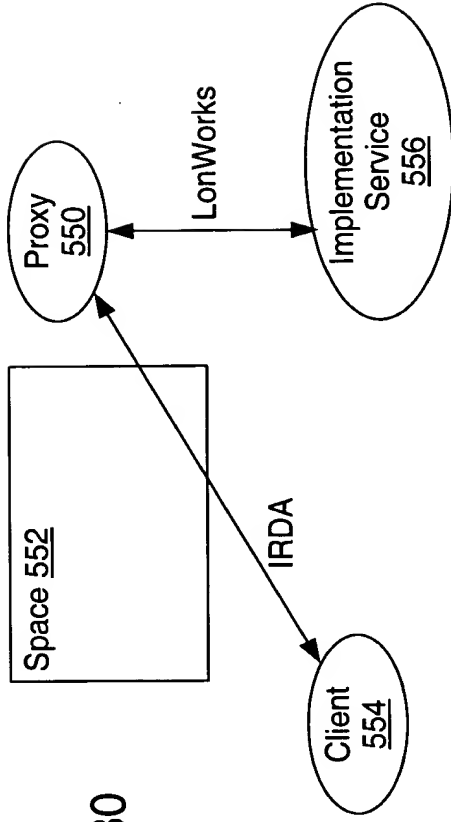


Fig. 30

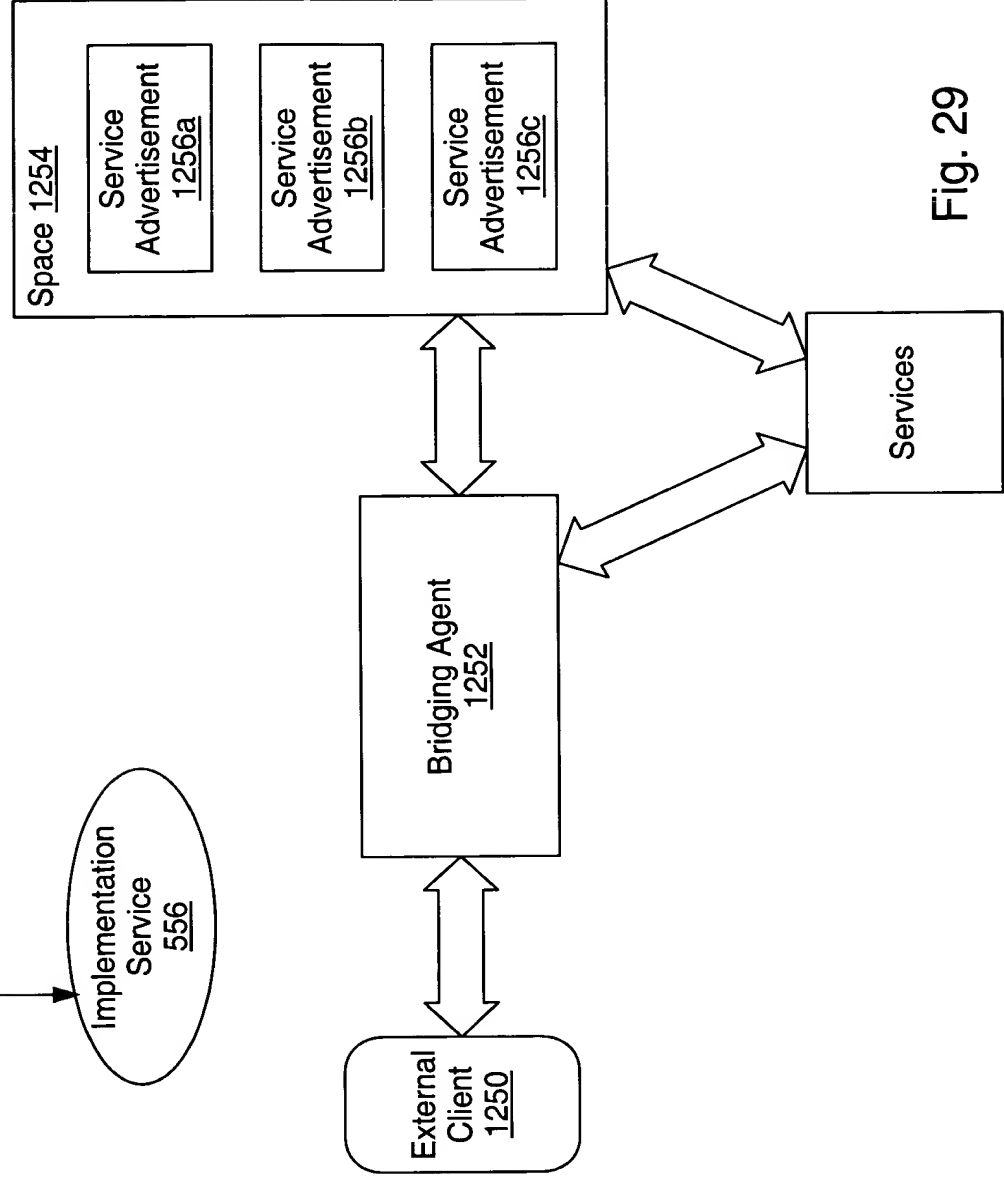


Fig. 29

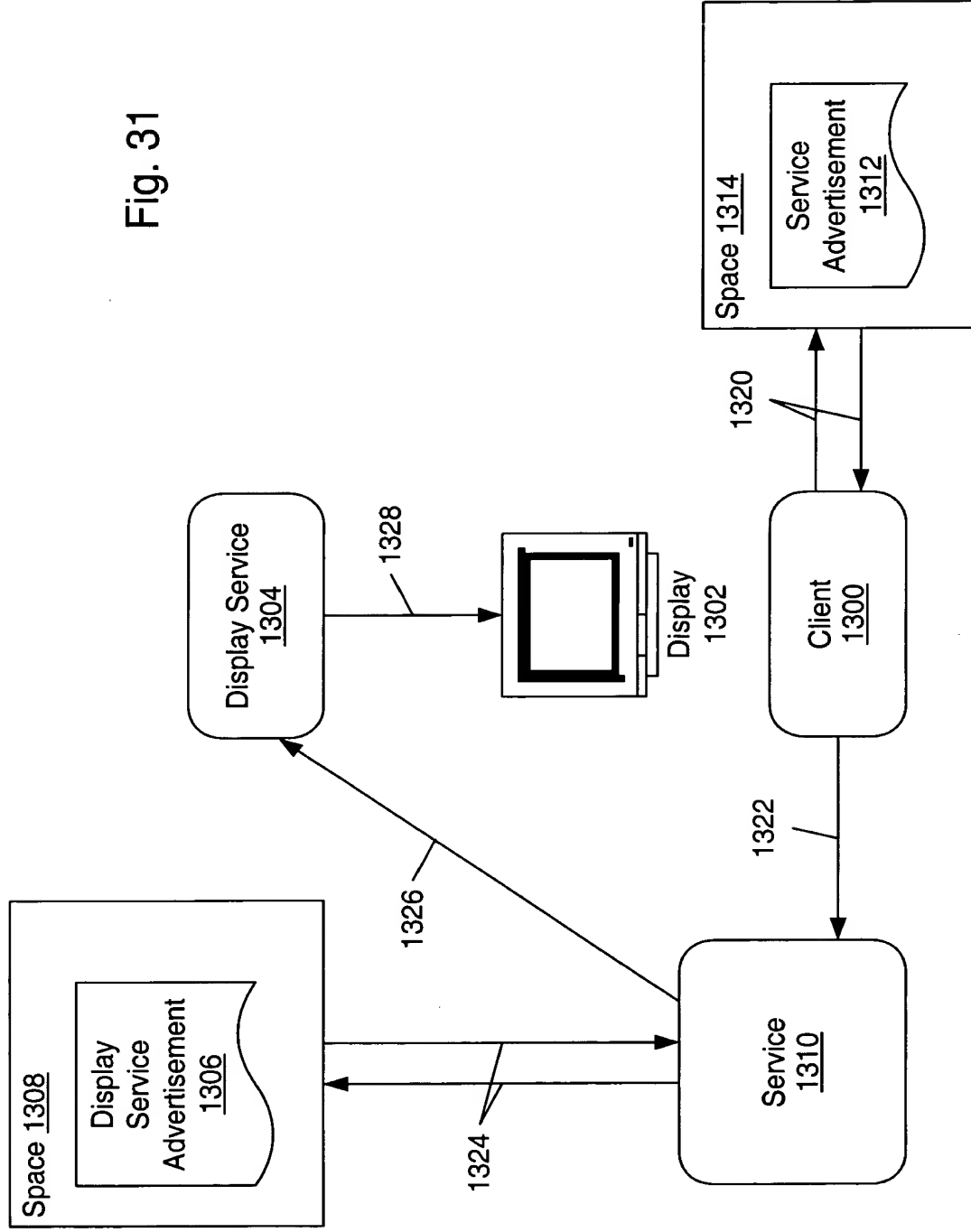


Fig. 31

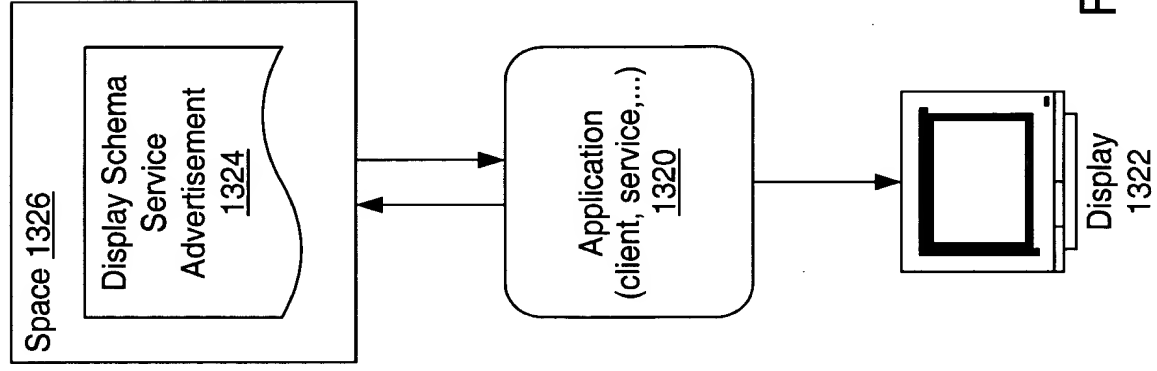


Fig. 32A

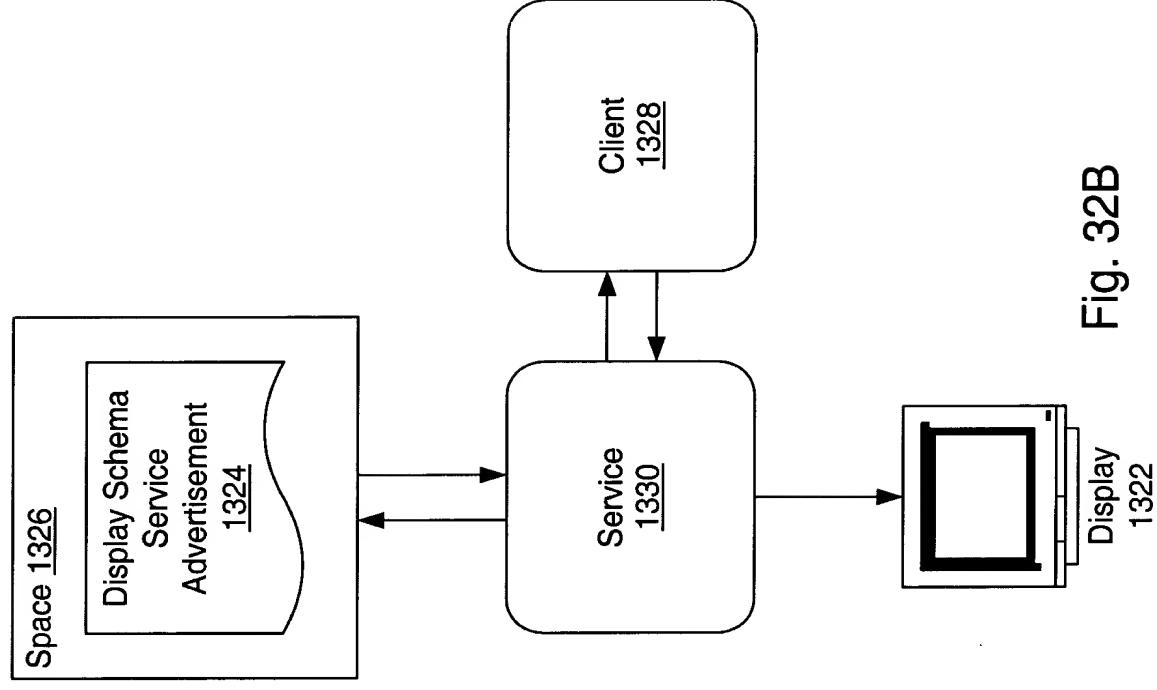
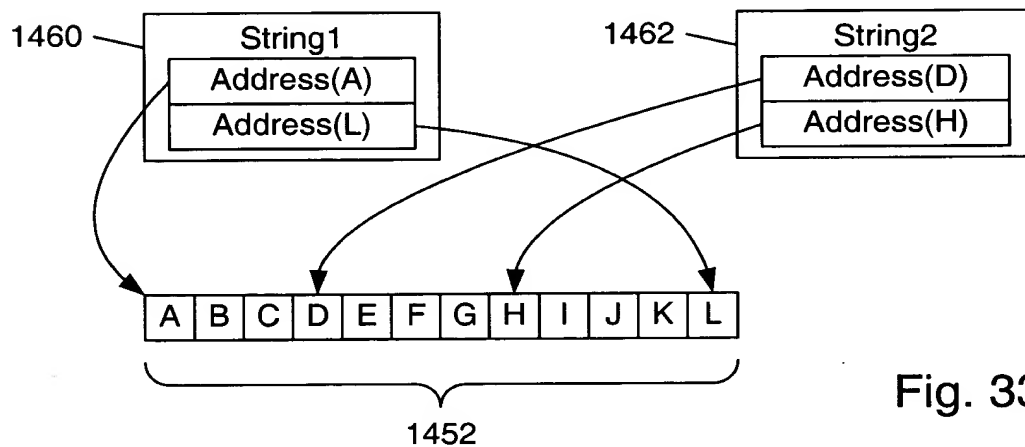
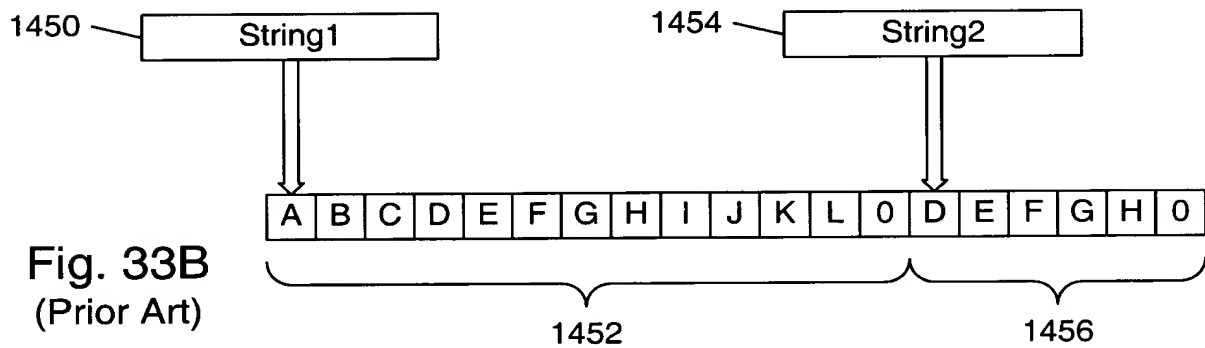


Fig. 32B



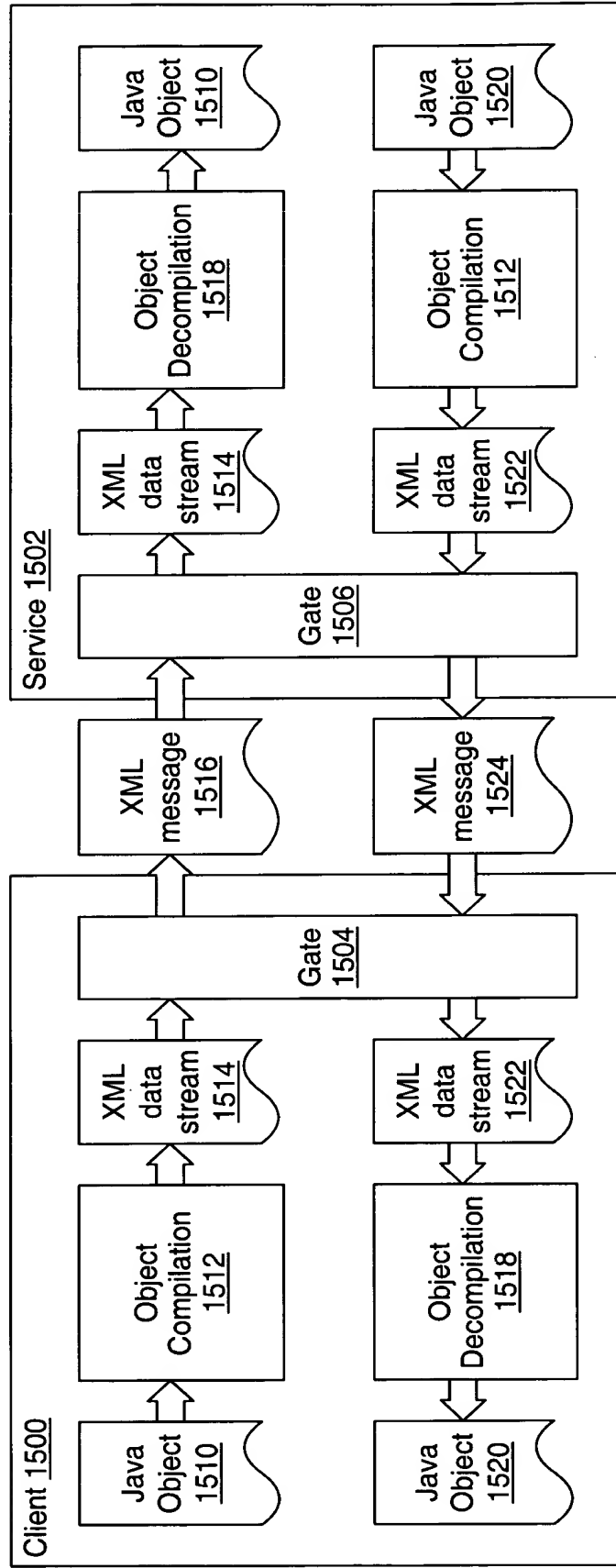


Fig. 34

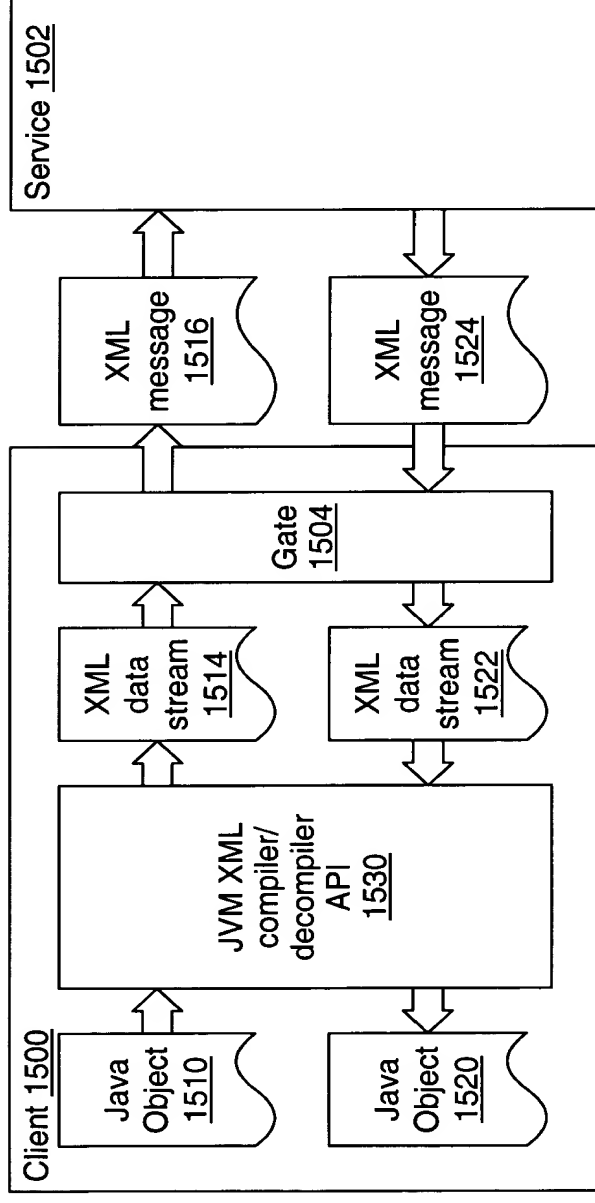


Fig. 35a

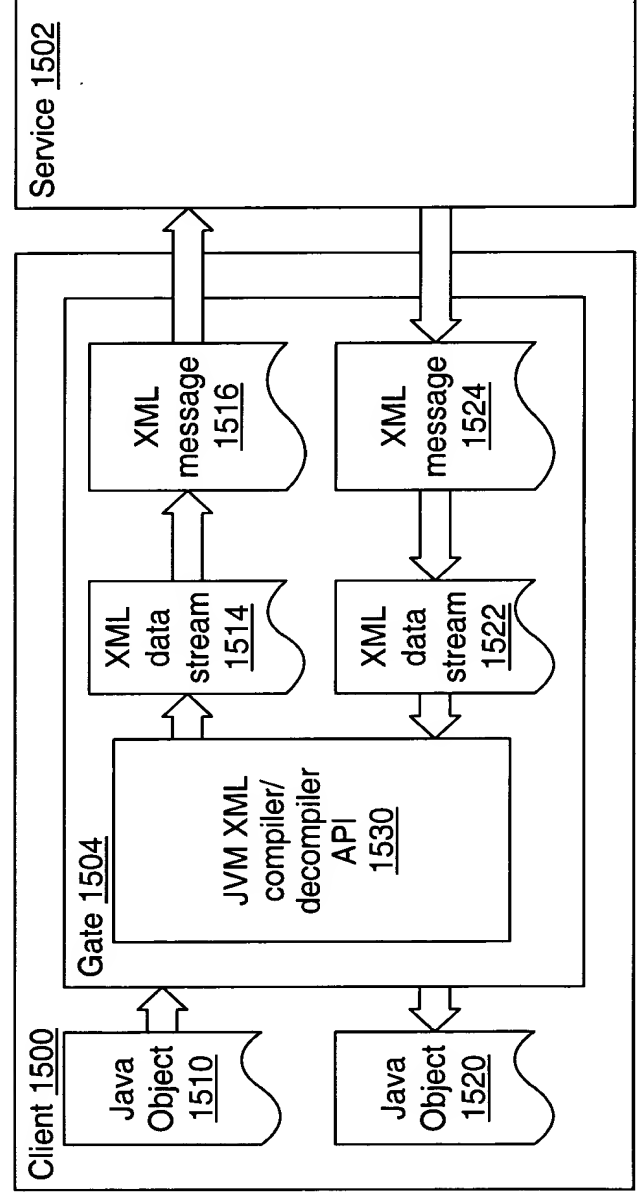
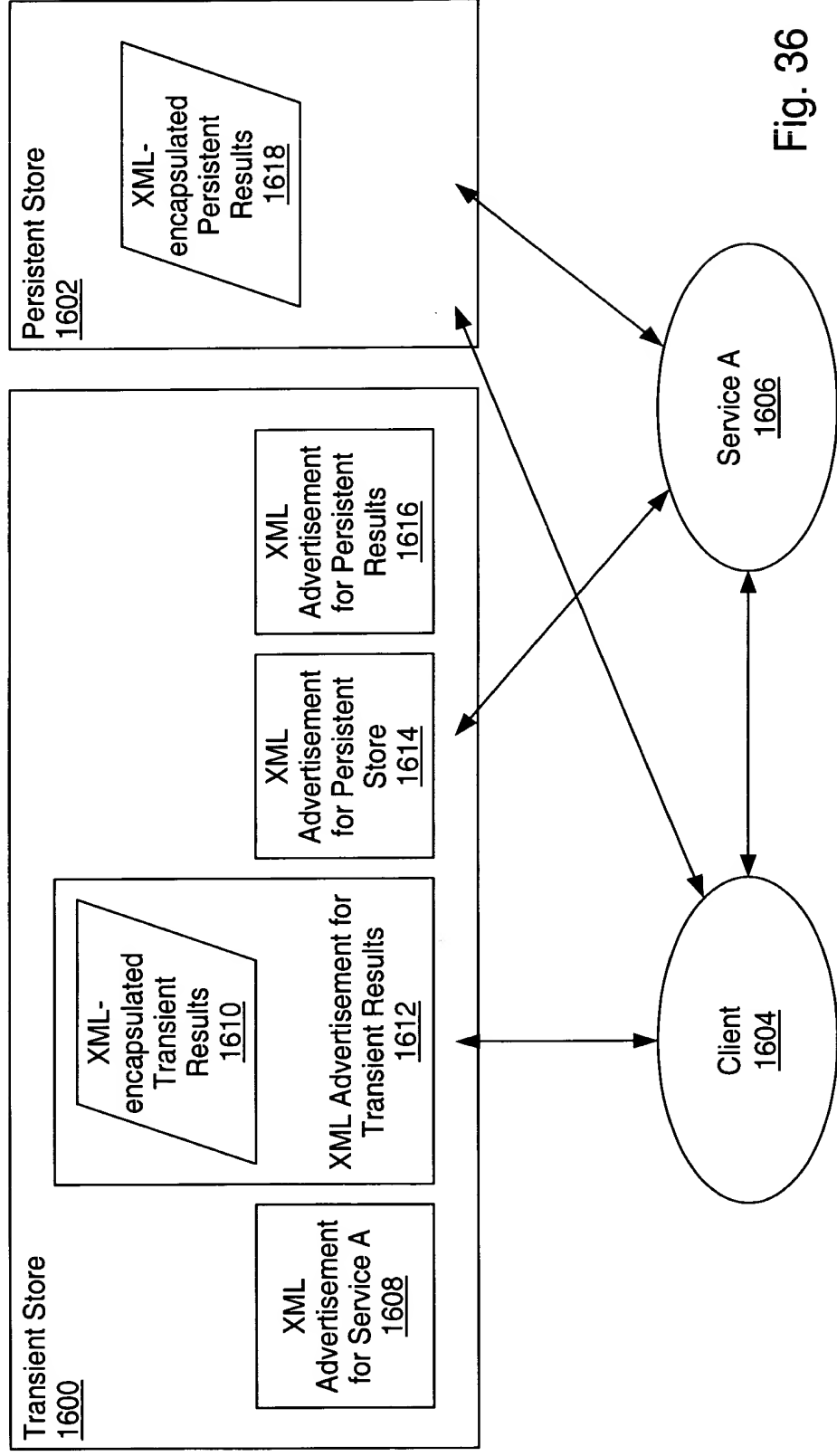


Fig. 35b



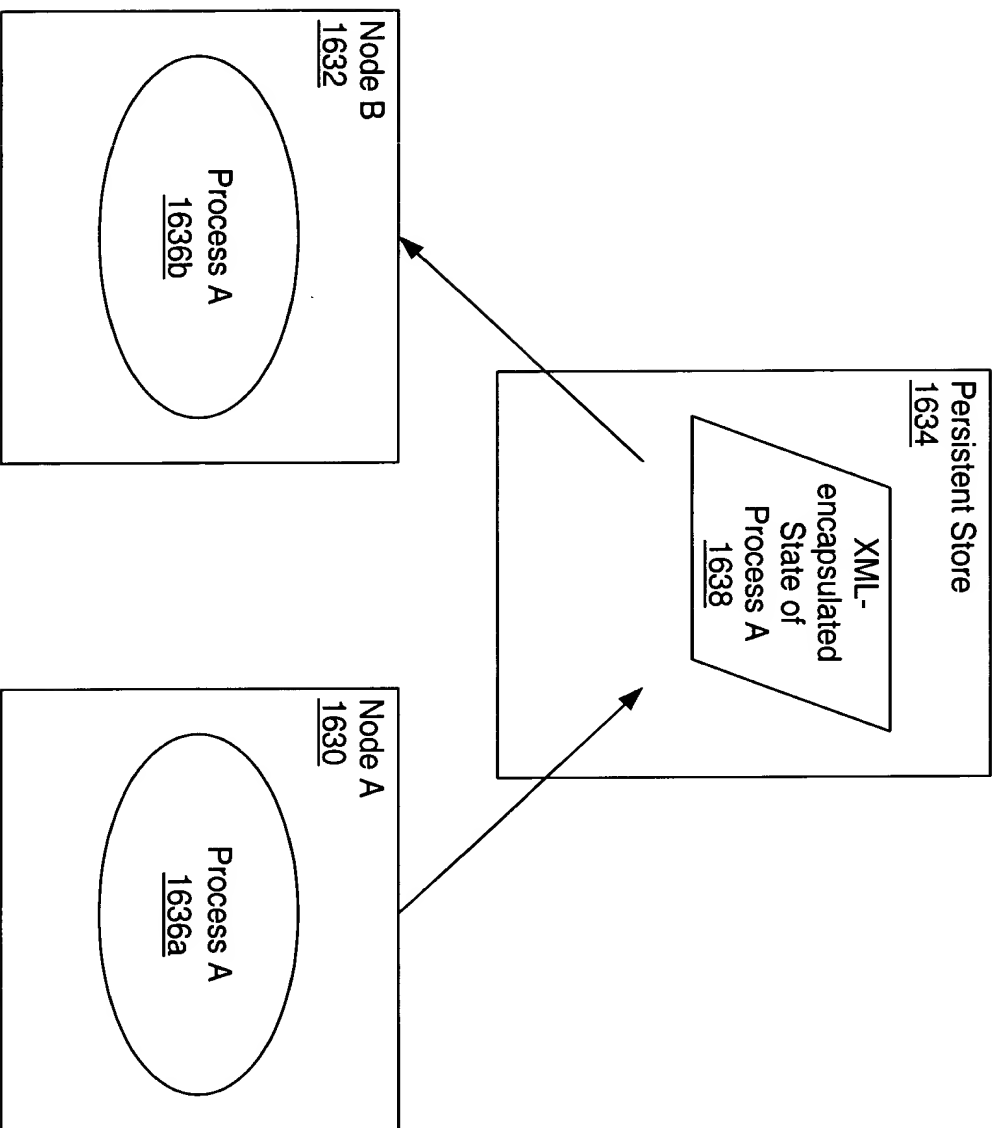


Fig. 37

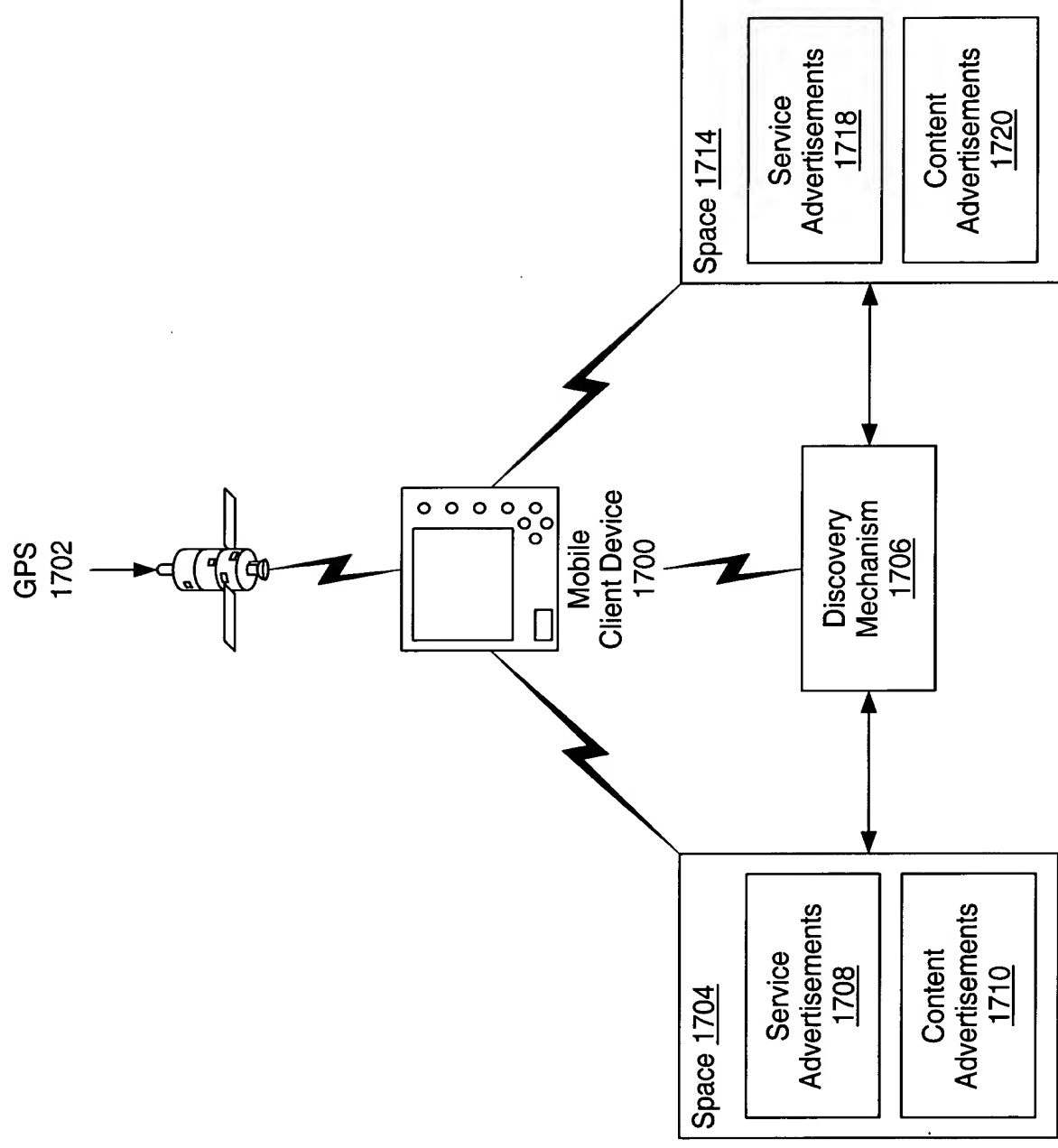


Fig. 38

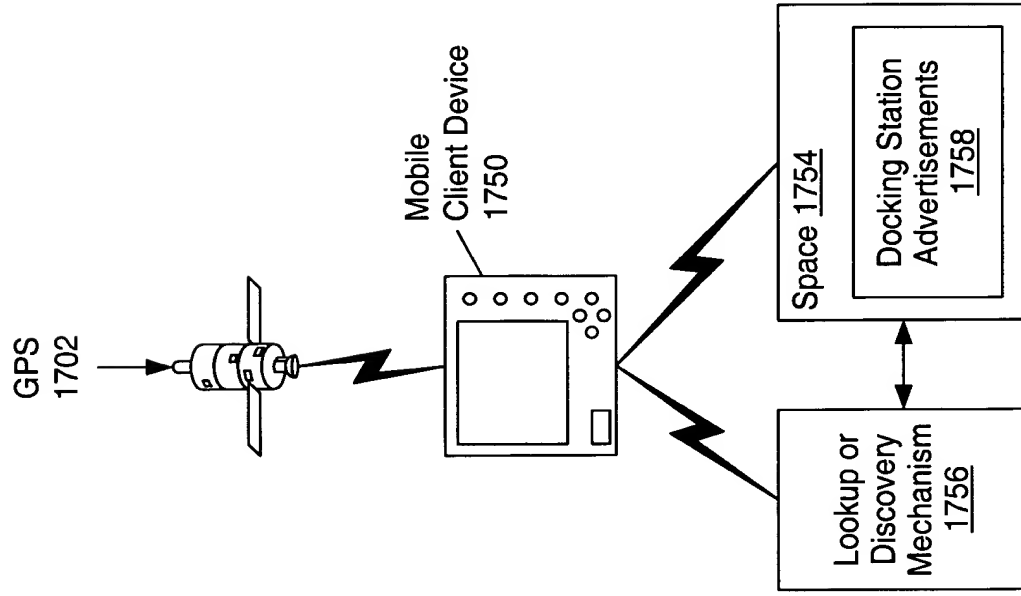


Fig. 39a

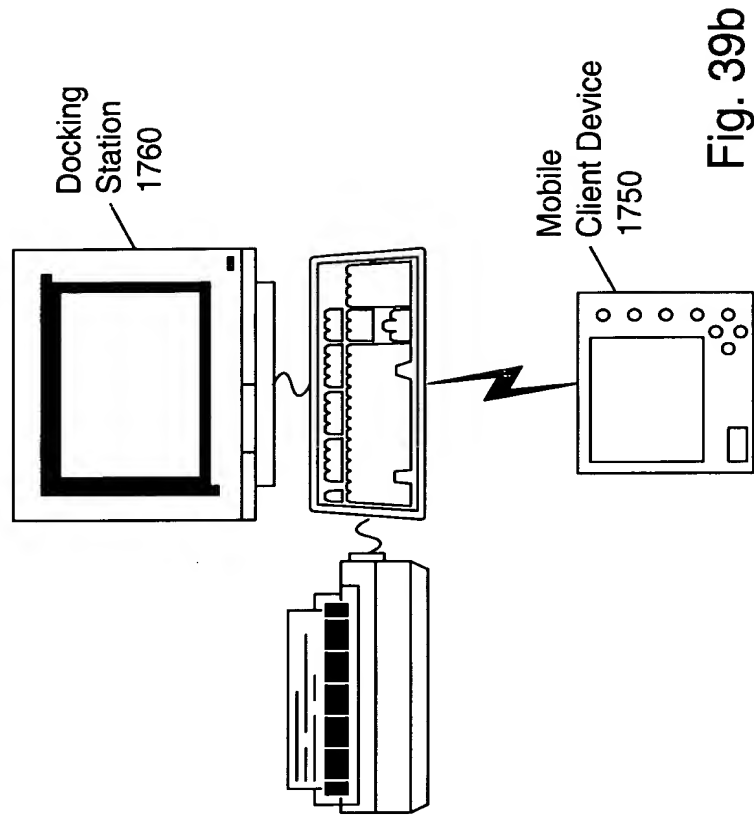


Fig. 39b

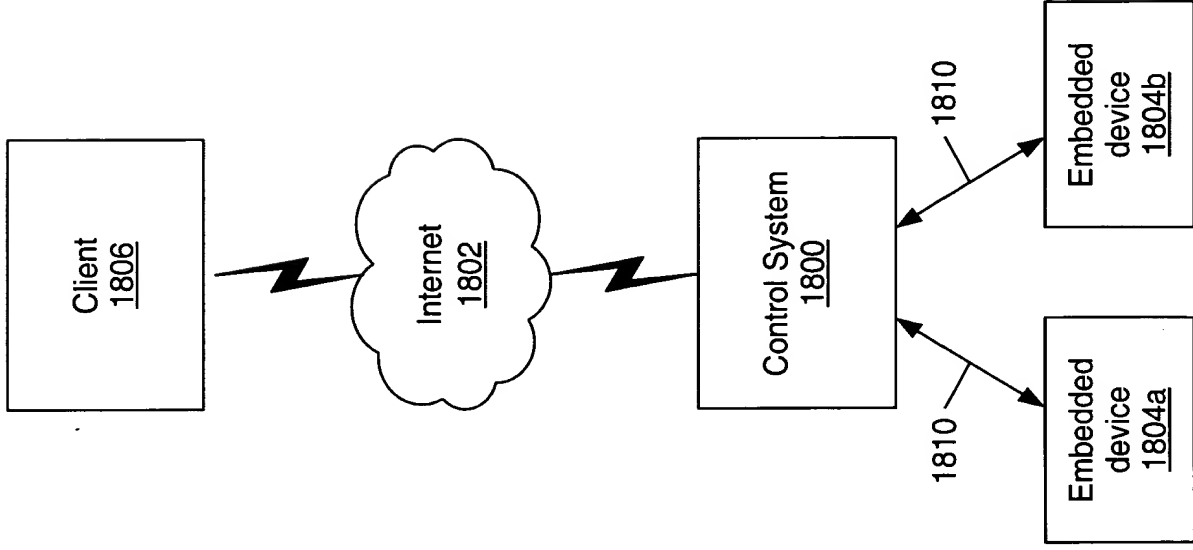


Fig. 40a

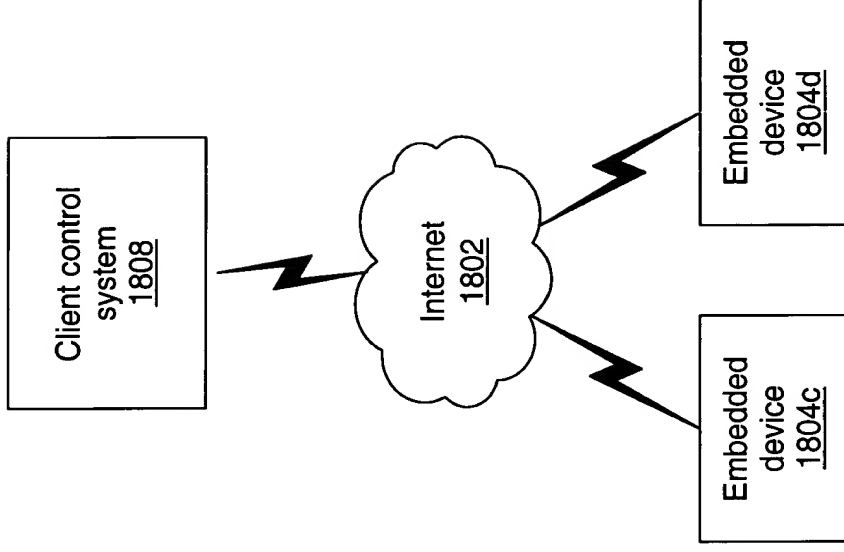


Fig. 40b

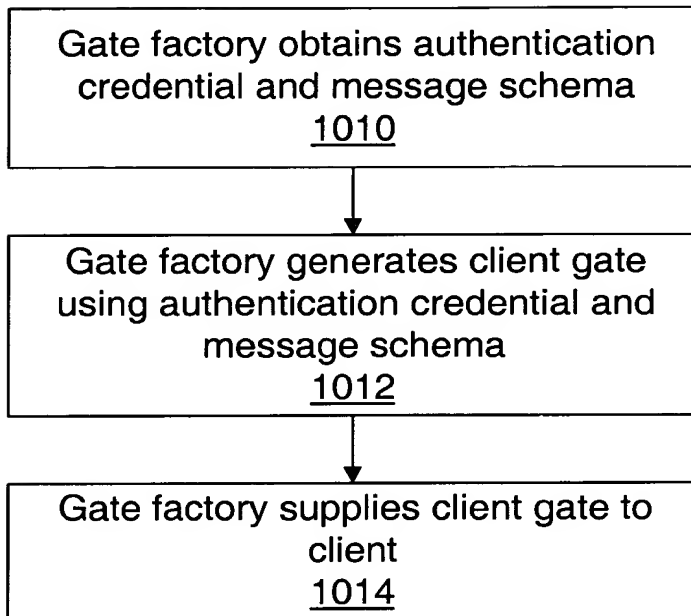


FIG. 41

Client sends first message to message gate
1020

Message gate embeds authentication
credential
1022

Message gate sends first message to
service URI
1024

FIG. 42a

Service receives first message
1030

Service sends authentication credential
to authentication service
1032

Authentication service verifies authentication credential
1034

Authentication service provides verification of client to service

Service generates service gate to pair
with client gate using authentication
credential
1038

FIG. 42b


```

graph TD
    1040[Sender embeds authentication  
credential in message  
1040] --> 1042[Sender sends message  
1042]
    1042 --> 1044[Receiver receives message  
1044]
    1044 --> 1046[Receiver compares authentication  
credential in message to known  
authentication credential to  
authenticate message  
1046]

```

FIG. 42c

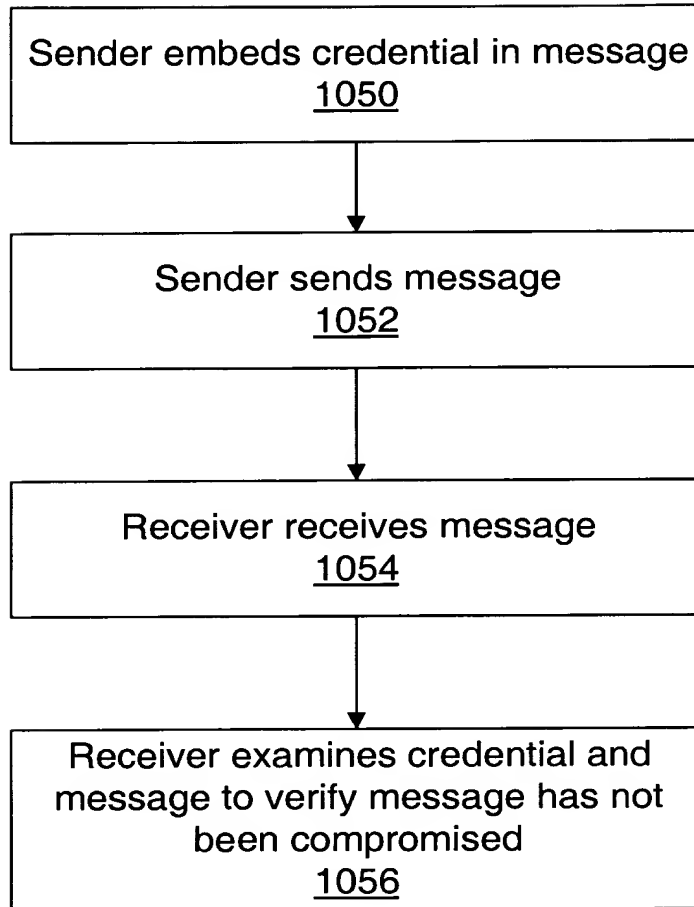


FIG. 43